

# SEQUENCE LISTING

<110> Behr, Marcel  
Small, Peter  
Schoolnik, Gary  
Wilson, Michael A.

<120> Molecular Differences Between Species of  
the M. Tuberculosis Complex

<130> STAN102CON

<140> Unassigned

<141> 2001-06-27

<150> 09/318,191

<151> 1999-05-25

<150> 60/097,936

<151> 1998-08-25

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<213> Mycobacteria tuberculosis

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<213> Mycobacteria tuberculosis

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<213> Mycobacteria tuberculosis

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<213> Mycobacteria tuberculosis

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<213> Mycobacteria tuberculosis

<400> 12

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<210> 13

<211> 651

<212> DNA

<213> Mycobacteria tuberculosis

<400> 13

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gactcgctta	cctcgcaagt	tggcgggcgg	tcgattgggg	tctacgcggg	gaactaccca	240
gcaagcgacg	actaccgcgc	gagcgcgcta	aacggttcgc	atgatgcgag	cgcccacatc	300
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gatccaatat	gcaccggagg	cggcaatatt	atggcgcatg	tttcgtatgt	tcagtcgggg	600
atgacaagcc	aggcggcgac	attcgcggcg	aacaggctcg	atcacgcggg	a	651

<210> 14

<211> 1674

<212> DNA

<213> Mycobacteria tuberculosis

<400> 14

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gccgctggcg	ctgatgaggt	atcggcggcg	gtggcagcgc	tgtttgccag	gttcggtcag	180
gaatatcaag	cggtcagcgc	gcaggcgagc	gctttccatc	aacagttcgt	gcagacgctg	240
aactcggcgt	caggatcgta	tgcgcccgcg	gagggccacca	tcgcgtcaca	gttgcagacc	300
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ctgtacggca	acggcggcaa	cggttattcc	gcgacggcgt	cgggggtcgg	cggcggggcc	480
ggcggttccg	cggggttgat	cggcaatggc	ggcgccgggg	gagccggcgg	acccaacgcc	540
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accgtcattt	catccggcct	gatgaatacc	gggttcttgc	ccttcagatt	ccagccgggtg	1620
tacatcgact	acagccccag	cggtataggg	acaacagtct	ttgatcatcc	ggcg	1674

<210> 15

<211> 1674

<212> DNA

<213> M. tuberculosis

<400> 15

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ataggttcca	cactgcgcgc	ggcgaatgcc	gcggctgccg	cctcgaccac	cgcgcttgcg	120
gccgctggcg	ctgatgaggt	atcggcggcg	gtggcagcgc	tgtttgccag	gttcggtcag	180
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gtctacacca	gccccggcgg	tgatcggtct	tacgcgttca	acacaaacga	ttaccgcccc	1560
accgtcattt	catccggcct	gatgaatacc	gggtttcttg	ccttcagatt	ccagccggtg	1620
tacatcgact	acagccccag	cggtataggg	acaacagtct	ttgatcatcc	ggcg	1674

<210> 16

<211> 417

<212> DNA

<213> Mycobacteria tuberculosis

<400> 16

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gaatgcctga	ttgtcttgac	cgcccgtcac	ggccccgttg	cgcgcacgat	cttcgaacga	180
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caacgagcct	ttctgcgata	cggcaagggg	cgccaccgcg	cggtctctca	cttcggagac	300
tgtatgacgt	acgcgaccgc	ccagctgggc	caccaaccac	tgctggccgt	cggcaacgac	360
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<210> 17

<211> 684

<212> DNA

<213> M. tuberculosis

<400> 17

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gccacggccg	cgcccaagac	ctactgcgag	gagttgaaag	gcaccgatac	cggccaggcg	120
tgccagattc	aaatgtccga	cccggcctac	aacatcaaca	tcagcctgcc	cagttactac	180
cccgaccaga	agtcgctgga	aaattacatc	gcccagacgc	gcgacaagtt	cctcagcgcg	240
gccacatcgt	ccactccacg	cgaagcccc	tacgaattga	atatcacctc	ggccacatac	300
cagtccgcga	taccgccgcg	tggtacgcag	gccgtggtgc	tcaaggtcta	ccagaacgcc	360
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ttcaaccggg	gggagttgct	gcccgaagca	gccggcccaa	cccagggtatt	ggtcccacgt	660
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<210> 18

<211> 684

<212> DNA

<213> M. tuberculosis

<400> 18

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tgccagattc	aaatgtccga	cccggcctac	aacatcaaca	tcagcctgcc	cagttactac	180
cccgaccaga	agtcgctgga	aaattacatc	gcccagacgc	gcgacaagtt	cctcagcgcg	240
gccacatcgt	ccactccacg	cgaagcccc	tacgaattga	atatcacctc	ggccacatac	300
cagtccgcga	taccgccgcg	tggtacgcag	gccgtggtgc	tcaaggtcta	ccagaacgcc	360
ggcggcacgc	acccaacgac	cacgtacaag	gccttcgatt	gggaccaggc	ctatcgcaag	420
ccaatcacct	atgacacgct	gtggcaggct	gacaccgatc	cgctgccagt	cgtcttcccc	480
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ggcttggacc	cggtgaatta	tcagaacttc	gcagtcacga	acgacggggg	gattttcttc	600
ttcaaccggg	gggagttgct	gcccgaagca	gccggcccaa	cccagggtatt	ggtcccacgt	660
tccgcgatcg	actcgatgct	ggcc				684

<210> 19

<211> 1443



<212> DNA

<213> *Mycobacteria tuberculosis*

<400> 19

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gggctcgcag	gacccttcgc	gccgatggcc	tatgttttag	ctggcatttt	cgcggtgtc	180
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tacacaacgg	ccgcatttgg	gcgcgggatc	ggcatctatg	tcggtgtcac	ccacgccatt	300
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cgc						1443

<210> 20

<211> 846

<212> DNA

<213> *Mycobacteria tuberculosis*

<400> 20

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gtgcccgatg	aggtcaaaca	gaagatcatc	ggggtgctcg	accgggtggg	caccctgacc	180
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ttctcccgtt	cgagctcagc	gccaaacgaa	tctagcgagt	gctcggccga	tcgccaacc	840
ggcgaa						846

<210> 21

<211> 1407

<212> DNA

<213> *Mycobacteria tuberculosis*

<400> 21

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aaatgggtgc	ccgtcgagta	cctcgacaac	gacgtcagcg	catcaaccgg	caagcgccgc	180
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<210> 22  
 <211> 513  
 <212> DNA  
 <213> M. tuberculosis

<400> 22						
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cggctactga	ccggactggc	cggcaacccc	gactacgcac	cgggttttgc	ggtgcagtcg	420
gacgcgggtg	tcgtcgccat	gtggctgtgg	cgcacgctct	gcgaaagcga	cacgccgaac	480
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<210> 23  
 <211> 219  
 <212> DNA  
 <213> M. tuberculosis

<400> 23						
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ctcatccgca	ccctcgccgc	agcgccgccc	ctgactgacg	agcagcgcac	ccggctggcc	180
gagctgctgc	gccccgtgcg	gcggtcaggc	ggtgcccga			219

<210> 24  
 <211> 396  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 24

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tgcgacgcag	cccggcactg	ggctctgagg	gtagagacgt	gccaggaggc	gatggcgag	300
gcgtcacgtg	acgtatctgc	ggccgccgac	tggcccgga	tcgcccgcga	gatcgccga	360
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<210> 25  
 <211> 1413  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 25						
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cacgtgctca	tcgacgacgg	tggcaaaccg	acgcaagttc	atcgcgcca	agcccgaatc	120
gcctaccggc	tagccgaacg	ttaccaggag	aagctgtgtc	acgtggccgg	gatcggtgg	180
cactcctggg	acggcagacg	ctgggcagcc	gacgaccgcg	gcgaagccaa	acgtgcagtg	240
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gtccgaaaat	gcgaatcggc	gtccggcgtg	gccggcgtgc	tcgacctggc	cgccgcactg	360
gtaccattcg	ccgcgacggg	agccgacctc	gacagcgacc	cgcaattgct	caacgtcgcg	420
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ctcgacaccc	acggataccc	ggtcactgac	aaggcccggtg	atggtcgttg	gcgggcccga	1380
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<210> 26  
 <211> 393  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 26						
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cgctaccacg	gccacaccgt	caccggaccc	gccgaccggg	cgcaacagca	gtgcaccgac	240
tgggcccagg	cggtgttccg	ggcggtcggg	ccccagcgga	caccgcgctg	gtacagggtc	300
ttatccaaag	tgctgcaccc	cgacgcccc	accggatgcc	cgatactgca	acagcagctc	360
aatgccgcca	gaaccgcact	taccaaccct	gct			393

<210> 27  
 <211> 270  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 27  
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 ccgaacctgc agaccggcga acccgtcagt ggtgtcgccg acaacaaatg gaagcgcgcg 180  
 aactgtcccg tcgacgtcgg taagccgtgc ccgttcctaa tcgccgaggg tgtcgccgac 240  
 agcaccgacg acaccataga ggtcgaccag 270

<210> 28  
 <211> 312  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 28  
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 tccttcgcga aagacggaac acttatcctc cgcggcgaca ccgagaacgc ctacctcgaa 180  
 gccggaggca atgttcttgc ccatgccgat cgtgactggc ttgccttcca cgcgtcgat 240  
 cccggcaacg acccgctgcg agacgcccga cctatcgagc aggacgacga ccagggggcg 300  
 gggtcgccat cg 312

<210> 29  
 <211> 468  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 29  
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 gattccggcg gccggaagt ccccgagtcg ccgaagtta tccgtcaggc accggatgcc 120  
 ccggactggc tcgacgccga ggcgctggcc gaatggcggc gcgtcgacc gactttggag 180  
 cggttgacc tgctcaaacc tgaggatcgg gcgtcctgt ccgcgtactg cgagacctgg 240  
 tccgtctacg tcgcggcggt tcagcgggtc cgcgccgaag gcctcacaat tacctaccg 300  
 aaatccggtg tcgtgcaccg gaaccggcg gtgacgggtg cggagacggc gcgcattcat 360  
 ctgctgcgct tggcctccga gtttggcctg acccggcgcc cggagcagcg actggcggtg 420  
 gcgccggggcg acgacggcga cggggtcaac ccgtttgcc cggaccgg 468

<210> 30  
 <211> 510  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 30  
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 tttcggcgct ccatcgccga gcgcggccac aaattgaagc tgctggtctc tcacgacgct 180  
 cgaacccgct acccggtggg ccgggcccgtt gagttgcggg aggagcctca cggcttggtc 240  
 ggggcggttc agattgcgga caccgcggac ggcgacgagg ctttggcgaa cgtaaaagct 300  
 ggtgtcgctc actcgtttcc ggtgggttcc cgaccgatcc gggaccgtcg cgaaggggat 360  
 gtgctggtgc gcgtcgaagc ggcgctgtta gaggtttccc taaccggcgt tccggcctat 420  
 tcgggggcac aaatcgccgg ggtgcgcgcg gaatcgctta cagtcgtttc ccgttcgaca 480  
 gccgaagcct ggctgtccct actcgattgg 510

<210> 31  
 <211> 1419  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 31  
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ctgacgcgcc	acgccgagga	actgcgggcg	gagcagcgcc	gccgcggccg	cgaagccgag	180
gaggcgctgc	gccgctaccg	ggccggtgag	ctgaggggtg	tgcccggcgc	tcccaccggc	240
ggcgacgacg	gcgacgcgcc	gccgggcaac	tcgttgcggg	acaccgcgtt	tcgcacactg	300
gattcttgtg	tgcgagacgg	cctgatgtcg	tcgcggggcg	cggagaccgc	ggaaaccttg	360
tgccgcaccg	ggccgcccga	gtccacctcg	tgggcgcagc	gctggctggc	ggccaccggc	420
agccgcgact	atttgggcgc	gttcgtcaag	cgggtttcca	atcctgttgc	ggggcacacg	480
gtttggaccg	accgggaagc	ggccgcgtgg	cgtgaggctg	ccgcggtggc	cgccgagcag	540
cgagcgatgg	gcctggtgga	cacccaaggc	gggtttctga	tcccggcggc	gctggacccg	600
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caaacgacct	ccgagatttg	gcggggcggtg	acttccgaag	gcgccgaagc	tcgttggtac	720
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gtcaacggct	ccggcaacgg	cgagcccacc	gggttcgtca	gcgcgctaac	cggcacctcc	960
gatcagggtg	tcgtcggcgc	ggggtcagaa	gcgattgtgg	cggcggatgt	ttacgcgttg	1020
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gattcggcgg	tgacagcgac	gaatcatcca	ctggtgcttg	gcgactggaa	gcaattcctc	1260
atcggcgaca	gagttgggtc	catggtggag	ttggtgcctc	acctgttcgg	gccgaatcgc	1320
cggccgaccg	ggcagcgcg	attcttcgcc	tggttcaggg	tcggatcaga	tgtgctggtg	1380
cgcaacgcgt	ttcgagttct	gaaggtggag	actaccgcg			1419

<210> 32

<211> 351

<212> DNA

<213> Mycobacteria tuberculosis

<400> 32

atggcgccgc	tggccgccgg	atcgccgagc	tggaacggcc	gaaagccaag	cagcggcaac	60
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agccagaatc	ggagcgctcg	tcgacgaaaa	cagacactgc	tatcggcgca	gccctcggca	180
tctccgccgg	cacctaccgg	cggctcaaac	gaatcgacaa	cgcaaccgcg	agcgagttgg	240
cgcgtagggc	gcccggcacc	cctaagcaga	ggccgcccac	gcctggccct	atcctaccta	300
cgcgtagtgc	tccaccttca	gaactcgaaa	cgcgttgcgc	accagcacat	c	351

<210> 33

<211> 309

<212> DNA

<213> Mycobacteria tuberculosis

<400> 33

atgggctaca	aaccagaatc	agagcgatcat	tcgacgaaaa	cagacactgc	tatcggcgca	60
gccctcggca	tctccgccgg	cacctaccgg	cggctcaaac	gaatcgacaa	cgcaaccac	120
agcgacgaca	aagaaatccg	ccggttcgcg	gagaacaaca	tggcgccgct	ggtcgccgga	180
tcgcccagct	ggaacgccc	aaagccaagg	agcgccaacg	cgaggggtgg	cgcctcggtg	240
catcgatcac	caatgccggc	tttgggtccc	tggaaacaaa	gccgtctcag	cgccacactg	300
acaaggagg						309

<210> 34

<211> 408

<212> DNA

<213> Mycobacteria tuberculosis

<400> 34

atgaccacca	caccagcacg	tttcaaccac	ttggtgacgg	taaccgacct	ggaaacgggt	60
gaccgcgccg	tctgcgaccg	cgaccagggtg	gccgagacga	tccgggcgtg	gttcccggac	120

gcgcccttgg	aggtgagggg	agcgctcggt	cggctgcagg	ccgcgttgaa	tcggcacgag	180
cacaccggcg	agctcgaagc	gttcctgcgg	atcagcgctc	agcacgccga	cgccgccggc	240
ggcgacgagt	gcggcccgcc	gatcctggcc	ggccgctccg	ggccggaaca	agccgccatc	300
aaccggcaac	tcggactcgc	cggcgacgac	gagcccgcag	gcgacgacac	cccgccgtgg	360
agccggatga	tcgggcttgg	cggcggaagc	ccagcggaag	acgagcgc		408

<210> 35

<211> 1407

<212> DNA

<213> Mycobacteria tuberculosis

<400> 35

gtgaaacggc	tcagcggctg	ggacgcggta	ctgctttaca	gcgagacccc	gaatgtgcac	60
atgcacacac	tcaaggctcg	cgtgatcgaa	ttggattcgg	acagacagga	attcgggtgc	120
gacgcgtttc	gcgaggtgat	cgctggccgg	ctgcataaag	ttgagccatt	gggctatcag	180
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ctcaactacc	acatccggcc	gtggcggttg	cgcgccccgg	ggggtcggcg	cgaactcgac	300
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gcgttcacgc	accacttgcg	ccacctcgcc	cggattcctg	caaccatccg	gtacaccacg	600
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cagcgggtgc	gcgtctgtca	cgaaaaacgc	gtctccggca	aggagagcca	ccagcttttg	1020
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ttccggtggt	tgtctgagcg	cgacgggcag	aacaaggtag	tcaacttgaa	tatctcgaat	1140
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ctcaatatct	cgtgtttaac	cgatggttcc	accgtgcagg	acccgcgatg	agtaaccgcg	1320
ggaatgatcg	cggacttcat	cgaaatacgc	cgcgcgcgtg	gtctttccgt	ggagttgaca	1380
gtcgtcgagt	ccgcgatggc	gcaggca				1407

<210> 36

<211> 786

<212> DNA

<213> Mycobacteria tuberculosis

<400> 36

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cggattttga	tcatcacgat	caaccgcccc	aaagccaaga	acgcggtcaa	cgccgcagtc	120
agccggggct	tggccgatgc	gatggatcag	cttgacggcg	atgccggcct	gtcgggtggca	180
atcctgaccc	gtggggggcg	ttcgttctgc	gcgggcattg	acctcaaggc	gttcgcccgg	240
ggcgagaatg	tcgtcgtcga	aggtcgcggc	cttggcttta	ccgaacgtcc	gccgaccaag	300
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ctgggtgccc	gcggcggggg	attgctgccc	ttgccggagc	gcattcccgt	tgcatagacc	480
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gtcaacgttt	tggccgagcc	ggggaccgcc	ctcgatgctg	cgatcgcggt	ggcgagagaag	600
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gggtggagtc	ccgacactat	gttcgctgag	cagatgaaga	tcctggtgcc	ggtgttcacc	720
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ggcacc						786

<210> 37  
 <211> 1461  
 <212> DNA  
 <213> M. tuberculosis

<400> 37  
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 ccgatggcgg ccgccgccga cgtcgacgcc gcggtcgccg cagcacgtgc ggcgttcgac 180  
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 aagatgctgg ctgagcgcaa ggacctgttc accaagctgc tcgcagccga aaccggccag 300  
 ccgccgacca tcctcgagac gatgcactgg atgggttcga tgggggcat gaactacttt 360  
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 ggccgcgaga acgggcccga ggggtgtcga cacttcaccg agcaaaagag tgtcctgctg 1440  
 ccgatgggct acaccgtcgc g 1461

<210> 38  
 <211> 831  
 <212> DNA  
 <213> M. tuberculosis

<400> 38  
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 ggcgcgatca agttggactg gcgcaccgac ctgcaggatc cggcacaacg tgacttcgtc 180  
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<210> 39  
 <211> 300  
 <212> DNA  
 <213> M. tuberculosis

<400> 39  
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 cggctgctgg actcctccga cgagttcacc gcggaggtcg tcgctgcggc caccggcgat 180  
 ttccggttct tcgccgcgcc cggatcctgg acgctgcgcg cgctgtcggc ggccggcaac 240  
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<210> 40  
 <211> 441  
 <212> DNA  
 <213> M. tuberculosis

<400> 40  
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 agtgtggacg aagtgttagc cgccgtctcg ggccccgaac aaggcggcat tgtcatatTT 120  
 gtgggaaacg tgcgtgacca caatgccggg catgatgtca cgcggttgtt ctacgaggcg 180  
 tatccgccga tgggtgattcg gacattgatg tcgatcatcg gacggtgtga agacaaggcc 240  
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 gtcgttattg gcgcgtcagc tccccaccgt gcggaggcat ttgacgccgc gcgtatgtgt 360  
 atcgagttgc ttaagcagga agtgccgatt tggaagaagg aattcagctc gaccggtgct 420  
 gaatgggtcg gcgatagacc a 441

<210> 41  
 <211> 600  
 <212> DNA  
 <213> M. tuberculosis

<400> 41  
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 gtgctgcagt tcggggtgcc agaaggggccg gttctggaac tggcgtgcgg tcgggtccggc 180  
 accgcgctgg ggctagccgc ggcggggccgc tgcgtgactg cgatcgacgt ttccgatacc 240  
 gcgttggttc agctcgagct cgaagcgacc cgacgggaat tggccgatcg cctcacactg 300  
 gtgcacgccg atctctgctc ctggcagtcg ggggatggac gctttgctct ggtactttgc 360  
 cgactattct ggcattccgc cacttttcgc caggcttgcg aggtgtggc gccggggcgt 420  
 gtagtggcgt gggagggcat gcggcgccc atcgatgctg ctccgggatac ccgtcgagcc 480  
 gaatgggtgct tgaagccagg ccagcccag tctgaacttc ccgccggctt cacggtgatt 540  
 cgggtggctg acaccgatgg ttcagagccg tcgcggcgca tcatcgccca acggtcactg 600

<210> 42  
 <211> 1200  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 42  
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 cacacagcat ggctcgtcac tcgctttgac gatgtaaagg gagtgtgtc cgacaagcgt 180  
 ttcagctgca gggcggcagc gcaccgcgtc tcgccccgt tcgtgccgtt cgtgcagctt 240  
 tgccccagct tggtgagcat cgatgggccc caacacaccg cggcccgcgg tctgctcgcg 300  
 cagggcctaa atcccggctt catcgcacgc atgcggcccg ttgtccaaca gatcgtcgac 360  
 aatgcgctcg acgatctggc agccgcggaa ccaccggtgg acttccagga aatagtaagt 420  
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 gagctcgcg cgacgtgga tgcggcgatg tccgtgtgtg agatcggcga cgaggaggtg 540  
 agccggcggt ggtcagcact gtgcacgatg gtcacgaca tactgcaccg caagctcgcc 600  
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accgacgagc	aggttgtcgg	catgctcctc	accgtcgtga	tcggaggagt	cgacacaccg	720
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tatggtccac	atgcttgccc	ggcctcagcg	tattcacgca	tgtgcttgac	gacgttcttc	1080
acctcgctta	cccagcgatt	tccgcaactt	caactcgcaa	gaccgtttga	ggatttgga	1140
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<210> 43  
 <211> 498  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 43	
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tccccgaaa	tgggtgcgcg
atctgcgcgg	cgcgcataga
gttcgtctga	aatcgttgga
ctgaatgccg	cgagtcgccg
tcaaagatgc	gcgacgacct
cgcaggtact	ccaagagtgt
ctggttagga	aggcgtca
ggacccatth	tcgatcaacg
ttcaaaactg	attacaccgg
gtcggggcga	cgagacttc
gactatagcg	tcgcgagtgg
tcgaagcgac	gctcgacatg
tttaattgcc	tgacatctta
ccctatttga	tctctgcaag
gacctatg	ccctatttga
gcttgtatga	attcacaatt
	498

<210> 44  
 <211> 693  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 44	
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cgaaacagaa	atcggatcaa
gtgaagggac	gtttccatca
aaagcgcaact	ggcgggcact
gctgactggc	tcgcgccgat
aggcgtctat	tgaatgcgat
tgggactacg	aattagccga
gcagcgaccg	aatatgtctc
gacgaactta	gcacccgggt
ttgtggggag	ggttcgagcc
gaggctccgg	actatttgag
tacatacctt	ggcgaggata
gatgacatgc	aatataccaa
gggttacagt	ggataactgt
gagacgctga	tcgacggcac
ccgctcattt	tgcgagatc
tacagcgcg	cgatctttc
gaacagcaca	cgaatctttc
ctcggtatca	gcacgcgact
gagagactgg	ccaacctctg
gcccgttcgt	atgtcgatga
gattatgacg	gctaccgcga
attctggatc	tgctctttaa
cag	
	693

<210> 45  
 <211> 395  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<220>  
 <221> misc\_feature  
 <222> (1) ... (395)  
 <223> n = A,T,C or G

<221> misc\_feature  
 <222> 27, 44, 104, 119, 180, 224, 237, 245, 254, 301, 327, 370,

385, 393

<223> n = A,T,C or G

<400> 45

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dysadytava	awaaryagsh	wgargcyvat	mavsawaarg	argrvvtga	aaawgvdrn	180
stgvvaayva	srrwgattva	vvkvvgvva	rwrwaggtgv	vvsnaawrgg	tashgknssg	240
grdrnvs gka	dsknysgkgt	grtgavvvvv	avagrrvmvg	vatatsadva	yyvvaavard	300
nggagdaahg	drrravgv cv	savasvnvav	gyvyggakgv	vgttvtvtw	awvtcvvvsy	360
arkarhshn	gtrsddtaas	ttscnvssrg	gcnyt			395

<210> 46

<211> 879

<212> DNA

<213> Mycobacteria tuberculosis

<400> 46

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gcggccgagg	cccgatattg	acgcgactgg	ctgtccgagg	acctcgcgcg	gttgccctgtc	180
ggtgcagcat	tgctggaagt	gggcgggggg	gtacttctgc	tcagctgtca	actggcgcg	240
gagggatttg	acatcaccgc	catcgagccg	acgggtgaag	gttttgcaa	gttcagacag	300
cttgccgaca	tcgtgctgga	attggctgca	gcacgaccca	ccatcgcgcc	atgcaaggcg	360
gaagacttta	tttccgagaa	gcgggttcgac	ttcgcttct	cgctgaatgt	gatggagcac	420
atcgaccttc	cggatgaggc	agtcaggcgg	gtatcggaag	tgctgaaacc	gggggcccagt	480
taccacttcc	tgtgcccgaa	ttacgtattc	ccgtacgaac	cgcatttcaa	tatcccaaca	540
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gctgctattc	gctcggcggt	gaaattgcgt	gtgcatcatc	tggcaggcta	tgttcccgcgt	840
acgctgcagc	ccatcatgga	tgtgcggcta	acgaagagg			879

<210> 47

<211> 1296

<212> DNA

<213> Mycobacteria tuberculosis

<400> 47

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gcgaccgcgt	tgcccggttg	ctgcgtctac	acggctcatc	atctggcggc	ccgcgacctc	180
cccccgctt	gtttttcgat	attcgcggtg	ttttgggggg	cgctcggcac	tgccaccggc	240
gccaccacag	gcctcctgca	agaaacgacc	cgcgaggtcc	gctgggtgcg	ctccaccaaa	300
atagttgcgg	gccatcgtag	ccatccgctg	cgggtggccg	ggatgattgg	caccgtcgcg	360
gccgtcgtaa	ttgcgggtag	ctcaccgctg	tggagccgac	agctattcgt	cgagggcgcg	420
tggctgtccg	tggggctact	cagcgttggg	gtggccgggt	tctgcgcgca	ggcgaccctg	480
ctgggcgcgc	tgcccgcgct	cgaccggtgg	acacagtacg	ggtcactgat	ggtgaccgac	540
gcgggtcatcc	ggttggcggt	cgccgcggca	gcggttgtga	tcggatgggg	tctggccggg	600
tacttgtggg	ccgccaccgc	gggagcggtg	gcgtggctgc	tcattgctgat	ggcctcgccc	660
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gccgctcatt	cgataaccgc	cgcggttgcc	agcgcgattc	tggtaatggg	tttcccagtg	780
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catttcgctg	accggcgcac	ccaacggctt	cgggcgctga	tcgcaccggc	gctggctcgt	960
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gttggtattc	gccccgacta	ccaaactggc	ggggcggttg	tggcctgggt	gacggcagcg	1080

gcggtagcta	tgccatgct	gacgctgacc	ggcgccgccc	cggtcgcggc	cgactgcac	1140
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ccgatgccgc	tggagacgcg	caccgtgatc	gcgctgttgt	tcggtccaac	ggtgggaatc	1260
gccatccatg	tggccgcgtt	ggcgcggcga	cccgc			1296

<210> 48

<211> 1020

<212> DNA

<213> M. tuberculosis

<400> 48

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tcgcggatcg	atcacctcta	cgtcgacccg	caccaaccgg	gcgcgcggct	gtttctgcac	180
tatggtgacc	tgatcgacgg	aaccgggttg	gtgaccctgc	tgagcaccat	cgaacccgac	240
gaggtgtaca	acctggcggc	gcagtcacac	gtgcgggtga	gcttcgacga	acccgtgcac	300
accggtgaca	ccaccggcat	gggatccatg	cgactgctgg	aagccgttcg	gctctctcgg	360
gtgcactgcc	gcttctatca	ggcgctcctcg	tcggagatgt	tcggcgccctc	gccgccaccg	420
cagaacgagc	tgacgccgtt	ctaccgcggg	tcaccgtatg	gcgccgccaa	ggtctattcg	480
tactgggcga	cccgaatta	tcgcgaagcg	tacggattgt	tcgccgttaa	cggcattctg	540
ttcaatcacg	aatcaccgcg	gcgcgggtgag	acgttcgtga	cccgaagat	caccagggcc	600
gtggcacgca	tcaaggccgg	tatccagtcc	gaggtctata	tgggcaatct	ggatgcggtc	660
cgcgactggg	ggtacgcgcc	cgaatacgtc	gaaggcatgt	ggcggatgct	gcagaccgac	720
gagcccgcag	acttcgtttt	ggcgaccggg	cgcggtttca	ccgtgcgtga	gttcgcgcgg	780
gccgcgttcg	agcatgccgg	tttggactgg	cagcagtacg	tgaaattcga	ccaacgctat	840
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ggctggaggg	cttcggtgca	cactgacgag	ttggctcgga	tcattggtcga	cgcgacatg	960
gcggcgctgg	agtgcgaagg	caagccgtgg	atcgacaagc	cgatgatcgc	cggccggaca	1020

<210> 49

<211> 966

<212> DNA

<213> M. tuberculosis

<400> 49

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ctgctggtgc	ggtcacgcgc	cgagcttgat	ctgacggatc	gggcccgcgac	gttcgacttc	180
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cgccgccaac	atggcctgcc	gtggatctcg	gcgatgcccc	ccaacctgta	cgggccaggc	540
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gccaagacca	gtggcgcgcc	caacgtgacc	aactggggca	ccggcacgcc	ccgacgggag	660
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cggcaa						966

<210> 50

<211> 729

<212> DNA

<213> Mycobacteria tuberculosis

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<400> 50
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agtgcgctgc tcgatgtcgg ggccaattcg gggcagtagc ccaggggtct gcgcggcgcg      180
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ctcatccgcg aggcgctcga tctcgtggat tcgttgggct ttacgctctc gggattgcaa      660
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ggcagcgat                                     729

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<210> 51
<211> 786
<212> DNA
<213> Mycobacteria tuberculosis

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<400> 51
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atgggcgacc ttcacgcccg ctacccgttc gggggaaggc gaatatcaca tgcctacctc      720
cgcgccgggg agttctacgc ctacaacagt cgattctggg aaaacgtctt cacgcgaatg      780
tcgaaa                                     786

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<210> 52
<211> 894
<212> DNA
<213> Mycobacteria tuberculosis

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<400> 52
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ccggagtcct cgcgcacgtt agacgaatcg tctcggttca tctcggcgcg cgggattctg      180
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gtcgacctgg tgatggagga gtacgacaac ttggaaccaa gcatcgccga gtcgttgctc      840
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<210> 53  
 <211> 1119  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 53  
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 cagcttttgc ccaagggtgag catcgtctcg accactcaca accaggcggg ctacgcccgt 180  
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 gatccgctga agctaagcaa acaggtcgca ttctcgcacc ggcaccccaa gacgacgggtg 480  
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 cccctggact ggtatctgca cgtccggcac gcggtgcatg gcgacatcgc catgttgccc 720  
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 ccgccaaagt tctggttgac gcagggtccg gggcatgcgg cgacgtttga cgcgatgtct 840  
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 gcgcgccatc cccggatcgc catgctggcg ctgcagcacc gcggggcgac acccgcgcg 1020  
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 gatgtgtggc cctcccggct ccgacgcggc tgtcgagcc 1119

<210> 54  
 <211> 282  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 54  
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 gccgggttgc tggaggcgga gcatcaggcc atcgttcgtg atgtgttggc cgcgggtgac 120  
 ttttggggcg gcgcgggttc ggtggcttgc caggagttca tcaccagct gggccgtaac 180  
 ttccagggtg tctacgagca ggccaacgcc cacgggcaga aggtgcaggc tgccggcaac 240  
 aacatggcac aaaccgacag cgcgctcggc tccagctggg cc 282

<210> 55  
 <211> 294  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 55  
 atggcaacac gttttatgac ggatccgcac gcgatgcggg acatggcggg ccgttttgag 60  
 gtgcacgccc agacgggtgga ggacgaggct cgccggatgt gggcgctccg gcaaaacatc 120  
 tcgggcgcgg gctggagtgg catggccgag gcgacctcgc tagacaccat ggcccagatg 180  
 aatcaggcgt ttcgcaacat cgtgaacatg ctgcacgggg tgcgtgacgg gctggttcgc 240  
 gacgccaaac actacgagca gcaagagcag gcctcccagc agatcctcag cagc 294

<210> 56  
 <211> 324  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 56  
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<210> 57

<211> 1524

<212> DNA

<213> M. tuberculosis

<400> 57

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<210> 58

<211> 1536

<212> DNA

<213> M. tuberculosis

<400> 58

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<210> 59

<211> 1536

<212> DNA

<213> M. tuberculosis

<400> 59

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<210> 60

<211> 1173

<212> DNA

<213> Mycobacteria tuberculosis

<400> 60

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<210> 61

<211> 1062

<212> DNA

<213> Mycobacteria tuberculosis

<400> 61

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<210> 62

<211> 654

<212> DNA

<213> Mycobacteria tuberculosis

<400> 62

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<210> 63  
 <211> 489  
 <212> DNA  
 <213> Mycobacteria tuberculosis

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 <212> DNA  
 <213> Mycobacteria tuberculosis

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<210> 66

<211> 720

<212> DNA

<213> M. tuberculosis

<400> 66

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gtggcaccgc	agtacagcaa	tccggagccg	gccggaaccg	ccaccatcac	cgggtatcgg	360
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gacgactcgc	agctggtgaa	ggatgcccgg	gcgcgcgcct	tccaagacgc	caagaaccgt	540
gcggaccagt	acgcacaact	gtcggggctg	cggctaggca	aggtgatctc	gatctccgag	600
gcatctggcg	ccgcgcccac	gcacgaggcg	ccggcgccgc	cgcgcgccct	atccgcgggtg	660
cgcgtggaac	ccggccagca	gacgggtggc	ttctcggta	cgggtggtctg	ggaactgacc	720

<210> 67

<211> 297

<212> DNA

<213> Mycobacteria tuberculosis

<400> 67

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ccggccgcgg	ctgatttggt	gtccctgcta	accgcctccc	agtttgccgc	gcatgcacag	180
ctgtaccagg	cgattagtgc	cgaggcgatg	gcgggtccagg	agcagttggc	gaccacgctg	240
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<210> 68

<211> 1239  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 68  
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<210> 69  
 <211> 294  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 69  
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 tccggcgcg gctggagtgg catggccgag gcgacctcgc tagacaccat gaccagatg 180  
 aatcaggcgt ttgcgaacat cgtgaacatg ctgcacgggg tgcgtgacgg gctggttcgc 240  
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<210> 70  
 <211> 282  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 70  
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<210> 71  
 <211> 1185  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 71  
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aaagccatca	ccgagcacgt	cgccgaacaa	ggggaagcgg	gcagc		1185

<210> 72  
 <211> 966  
 <212> DNA  
 <213> M. tuberculosis

<400> 72						
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tcatggagac	accagattcc	tgcgcttgcc	gacgcgggt	accacgtgtt	ggctcccgat	180
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ggtcgatgact	ggggtgccgt	ggtggtgtgg	aacgcgccac	tgctgcacgc	tgaccgagtc	360
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<210> 73  
 <211> 1365  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 73						
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ccgctggcaa	tcattccggc	acggcgccacc	gaagaggtgc	agacggtgct	gcgttgggccc	180
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ccggtcaccc	gcaccgcagt	gtgccagccc	ggcctgtaca	acgccgaggt	gaaggaggcc	360
gccgccgaac	acggcctgtg	gtatcccccg	gatccgtcgt	cgttcgagat	ctgcagcatc	420
ggcgccaaca	tcgccacca	cgcgggcccgg	ctgtgctgcg	tgaagtacgg	cgtcacaggc	480

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cggcgtggt	tggccggcta	tctcggggcc	gacgtcctgg	ccctcaacca	gcgcacaaag	1320
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<210> 74

<211> 1215

<212> DNA

<213> Mycobacteria tuberculosis

<400> 74

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cggatgcaat	gccgggtggc	gctgaccgaa	ctgctggccc	ggtgcccggg	cttcgaggtg	1140
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<210> 75

<211> 606

<212> DNA

<213> Mycobacteria tuberculosis

<400> 75

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<210> 76

<211> 534

<212> DNA

<213> Mycobacteria tuberculosis

<400> 76

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gctaagtcgc	tcaccgacag	gctcggcgag	ctgcaggaga	actggaaagg	tagttcgtcg	180
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taccggggccc	aaaatatcgc	tgtcatgaac	gactatcaaa	gtaccgcccg	gtttatccta	480
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<210> 77

<211> 1230

<212> DNA

<213> Mycobacteria tuberculosis

<400> 77

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<210> 78

<211> 753

<212> DNA

<213> Mycobacteria tuberculosis

<400> 78

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<210> 79

<211> 696

<212> DNA

<213> Mycobacteria tuberculosis

<400> 79

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<210> 80

<211> 528

<212> DNA

<213> Mycobacteria tuberculosis

<400> 80

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taccggggcc	gcaatgtcgc	tgtaatgaac	gcctatgtaa	gttggacccg	atctgcgcta	480
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<210> 81

<211> 1170

<212> DNA

<213> M. tuberculosis

<400> 81

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gataccgtca	ccgccgagcg	ctgggagtg	ccgacgccga	tgctgcccgc	ggtgcaaggc	180
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atcgggtcca	ccctgatccg	gctgttcggc	cacgacaacg	tgaccgtggt	gccgcacgtg	300
tccgcggtga	cggtggcggtg	cgcccggtatg	ggctggaacg	tgtatgacac	cgaggtgatc	360
agcctgggtca	ccgcgcaacc	acacaccgcg	gtgcgccgcg	gcggccgggc	catcgtgctg	420

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cgattccagc	actatctcgg	cgaaccgctg	ggcggttca	ccggttggcg	cccacagctg	1140
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<210> 82

<211> 747

<212> DNA

<213> Mycobacteria tuberculosis

<400> 82

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caactcgcgc	accaggccgc	cgcactccgc	gcagctggcg	ctatagcggg	gcacaccggg	180
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cgcgtgggtg	ggattccgtg	ggcgctgcgg	ccaatgtttg	ttgcgctgcg	gttgcttccc	720
cggttcgtct	ggcgagagat	gccgcga				747

<210> 83

<211> 411

<212> DNA

<213> Mycobacteria tuberculosis

<400> 83

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ggtttcacct	tcgaccccaa	gactcacatc	gcgcgggtca	tcaccaccgg	cggctcccaa	180
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gagctgcgct	acgcgcagcg	ctatcgccac	ccgcgtccca	atccacgcgc	agtggtcac	360
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<210> 84

<211> 1461

<212> DNA

<213> Mycobacteria tuberculosis

<400> 84

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gcatcctgtg	acgtaataag	cccgggttgc	atcccctgcg	tggcgctcgg	caagttcgcc	180
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<210> 85

<211> 429

<212> DNA

<213> Mycobacteria tuberculosis

<400> 85

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tacacggaac	cgcccgtggt	ggggatcggc	ccggcgccgg	cccgcgggct	ggccgctgag	360
ctgctcaacg	ccgccgacac	cctcgacgac	ggccgcggcg	agctagacga	cctcgccgaa	420
caccggcg						429

<210> 86

<211> 996

<212> DNA

<213> Mycobacteria tuberculosis

<400> 86

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gggcacctag	gggtggtgga	agccttcctg	gcggcgccca	agtcgcaaaa	caagccgccc	180
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gtacaacaac ttctcgggtca cgcctcgatc gtgacaacag aacgctacac agcgctgtgc	960
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<210> 87  
 <211> 366  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 87	
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gagctggaac ggccgaaagc caaacagcgg caacgcgaag gcggcgacca tggccgccag	180
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aaacgaatcg acaacgcaac ccgcagcgaa gctgggtacc gggatggttt aaacgggttg	360
agcggc	366

<210> 88  
 <211> 324  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 88	
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ctacttggtg ttggctgcgc ggagacggtg cgtaagtggg tgcgccaggc gcaggtcgat	180
gccggcgcac ggcccgggac cagcaccgaa gaatccgctg agctgaagcg cttgcggcgg	240
gacaacgcgc aattgcgaag ggccaacgcg attttaaaga ccgcgtcggc tttcttcgcg	300
gccgagctcg accggccagc acgc	324

<210> 89  
 <211> 984  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 89	
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tcgatctgca cacagctgac cgagctgggt gtgccgatcg ccccatcgac ctactacgac	180
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caacgccaga gaccagccgc cggc	984

<210> 90  
 <211> 1437  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 90

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<210> 91

<211> 531

<212> DNA

<213> Mycobacteria tuberculosis

<400> 91

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<210> 92

<211> 624

<212> DNA

<213> Mycobacteria tuberculosis

<400> 92

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624

<210> 93

<211> 321

<212> DNA

<213> Mycobacteria tuberculosis

<400> 93

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cgcgcccaac	ggcagcgcgga	cctcgaggct	atccgcccag	cgtagcgcga	gatggtggcg	180
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gatgagcagc	gccggcttga	ggcggggatg	aagctcggct	ggcatccgta	tcacttcccc	300
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<210> 94

<211> 243

<212> DNA

<213> Mycobacteria tuberculosis

<400> 94

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accgcggccg	tcgagcttgc	gcgagcggtg	gtccgcgctg	tggcggagtc	gcacggcgctc	180
gcggccggtt	tggttcgccg	gacggccgcc	gcggcggcgg	ccgtcgaccg	gggtgatccg	240
ccg						243

<210> 95

<211> 1425

<212> DNA

<213> Mycobacteria tuberculosis

<400> 95

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ttcgtagtct	atccaagcga	ccatgaactg	atcgcgacga	ccctctggat	tgcgcatgac	180
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 <212> DNA  
 <213> Mycobacteria tuberculosis

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 <212> DNA  
 <213> Mycobacteria tuberculosis

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<210> 98  
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 <212> DNA  
 <213> Mycobacteria tuberculosis

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<210> 99  
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 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 99  
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<210> 100

<211> 225

<212> DNA

<213> Mycobacteria tuberculosis

<400> 100

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<210> 101

<211> 186

<212> DNA

<213> Mycobacteria tuberculosis

<400> 101

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<210> 102

<211> 357

<212> DNA

<213> Mycobacteria tuberculosis

<400> 102

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<210> 103

<211> 1854

<212> DNA

<213> Mycobacteria tuberculosis

<400> 103

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<210> 104

<211> 1242

<212> DNA

<213> Mycobacteria tuberculosis

<400> 104

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<210> 105

<211> 1284

<212> DNA

<213> Mycobacteria tuberculosis

<400> 105

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<210> 106

<211> 1284

<212> DNA

<213> Mycobacteria tuberculosis

<400> 106

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<210> 107

<211> 309

<212> DNA

<213> Mycobacteria tuberculosis

<400> 107

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<210> 108

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<212> DNA

<213> Mycobacteria tuberculosis

<400> 108

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<210> 109

<211> 1218

<212> DNA

<213> Mycobacteria tuberculosis

<400> 109

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<210> 110

<211> 795

<212> DNA

<213> Mycobacteria tuberculosis

<400> 110  
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<210> 111

<211> 813

<212> DNA

<213> Mycobacteria tuberculosis

<400> 111  
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<210> 112

<211> 1275

<212> DNA

<213> M. tuberculosis

<400> 112  
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<210> 113

<211> 1026

<212> DNA

<213> Mycobacteria tuberculosis

<400> 113

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<210> 114

<211> 1230

<212> DNA

<213> Mycobacteria tuberculosis

<400> 114

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<210> 115

<211> 1269

<212> DNA

<213> *Mycobacteria tuberculosis*

<400> 115

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<210> 116

<211> 1131

<212> DNA

<213> *M. tuberculosis*

<400> 116

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<210> 117  
 <211> 1311  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 117  
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<210> 118  
 <211> 573  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 118  
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<210> 119  
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 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 119  
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<210> 120

<211> 375

<212> DNA

<213> Mycobacteria tuberculosis

<400> 120

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<210> 121

<211> 663

<212> DNA

<213> Mycobacteria tuberculosis

<400> 121

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cag						663

<210> 122

<211> 405

<212> DNA

<213> Mycobacteria tuberculosis

<400> 122

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gcgttgaccg	accgggtccg	agacttgggt	gcggcagtc	acccggcaga	acggttccgt	360
gaccttatcg	acccgcgcgg	gtcgaacgcg	gcccgcgcga	cgcag		405

<210> 123

<211> 1044

<212> DNA

<213> Mycobacteria tuberculosis

<400> 123

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agcgcggcac	gggtcgggcc	gcggcagttc	gccgacctcg	acgcgctgct	ggacgaatgc	240
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gatgccttca	ccatcgccat	gggcaagcca	ttcaccgtga	tcacctcggg	gctgtacgac	360
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atcgctcagg	gcgtggggacg	ggcagcctcg	aacgcggccg	attcattggg	ccgcaagatc	1020
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<210> 124

<211> 564

<212> DNA

<213> Mycobacteria tuberculosis

<400> 124

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ttagcccggg	cactgctgga	cggatatccc	gtgggcccagc	tgcaacagcg	atttcccaat	360
gttgccggagc	tgctcgacgc	ggtacggcct	cgctacgaca	gcgacttggg	cgcgcggctg	420
gcggctcgcg	acgcccttgc	gctgcaatcc	gggttggcgcc	tctttgcgcc	catgctgcgc	480
tcggcgacgg	gtatcgacga	gctgaccggg	gacgaactac	ggctgtccgt	gaacgatgcg	540
gtagcccggg	tcctggaacc	gcac				564

<210> 125

<211> 702

<212> DNA

<213> Mycobacteria tuberculosis

<400> 125

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cgatgtgatg	tcgcagagcg	cgtcgcgga	atcgtggagc	ggtatgacct	cgtcctttcc	180
ttccactgta	aacagagggt	tcccgcgcgt	ttgatcgatg	gggtcagggtg	tgtgaatggt	240
catccggggt	tcaaccccta	caaccgcggc	tggtttcccc	aggtcttctc	gatcatcgac	300
gggcaaaaag	tcggcggtgac	gatccacgag	atcgacgata	agttggacca	tggtccgata	360
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tacacggcta	aatcgccggc	caccgagggc	aacctcaacc	tgaaaaagga	tttcgaacaa	540
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gcgttgacct	atgatgattt	ccgcaacgct	tggttcgtcg	atgcgtcagg	ccgcaagggtg	660
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<210> 126

<211> 1599

<212> DNA

<213> Mycobacteria tuberculosis

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<400> 126
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<210> 127

<211> 1236

<212> DNA

<213> *Mycobacteria tuberculosis*

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<400> 127
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<210> 128



<211> 2358  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 128

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cgcggcaacc	tcgacgaggg	cgaacccttc	ggactgccgg	gcacctacct	gaactctttc	180
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<210> 129  
 <211> 786  
 <212> DNA  
 <213> Mycobacteria tuberculosis

<400> 129

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<210> 130  
 <211> 60  
 <212> DNA  
 <213> M. tuberculosis

<220>  
 <221> misc\_feature  
 <222> (1)...(60)  
 <223> n = A,T,C or G

<221> misc\_feature  
 <222> 2, 55  
 <223> n = A,T,C or G

<400> 130	
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<210> 131  
 <211> 60  
 <212> DNA  
 <213> M. tuberculosis

<400> 131	
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<210> 132  
 <211> 60  
 <212> DNA  
 <213> M. tuberbulosis

<400> 132	
tgacgccttc ctaaccagaa ttgtgaattc atacaagccg tagtcgtgca gaagcgcaac	60

<210> 133  
 <211> 60  
 <212> DNA  
 <213> M. tuberculosis

<400> 133	
tgacgccttc ctaaccagaa ttgtgaattc atacaagccg tagtcgtgca gaagcgcaac	60

<210> 134  
 <211> 11  
 <212> DNA  
 <213> M. tuberculosis

<400> 134 actcttggag t	11
<210> 135 <211> 11 <212> DNA <213> M. tuberculosis	
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<210> 136 <211> 49 <212> DNA <213> M. tuberculosis	
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